

Welcome to IMSA's "19-19-19 COVIDeos 19" E-Learning Webinar Series

Thank you for Attending.
We will begin the webinar at the top of the hour.



Using a Tech Tool to Teach About the United Nations Sustainable Development Goals (UN SDGs)



“19-19-19 COVDeos 19” E-Learning Webinar Series

19-minute webinars held every weekday evening
at 1900 hours for a total of 19 evenings



In case you were wondering...

PowerPoint Presentation for this Webinar
is Located in a .pdf Document Here:



<https://tinyurl.com/yx83yp8g>

Housekeeping Issues



- All participants are muted and video is turned off.
- We are recording this webinar.
- Please type questions in the chat box and they will be answered following the presentation.
- IMSA's Programs:
 - **“Ask a Specialist”** - If you have follow-up questions, please make an appointment with one of IMSA's “Ask a Specialist” experts. This is a one-on-one Zoom session with an expert in your grade level and field of discipline.
 - **“IMSA Snack Boxes”** - The Snack Box is designed for teachers and parents to provide STEM-focused lessons or activities by grade level band. New Snack Boxes will be posted each week.
 - **“19-19-19 COVIDeos 19” E-Learning Webinars** - FREE! We will be offering **19-minute** webinars for **19 days** at **1900 hours** (7:00 PM, CDT). These webinars will focus on remote teaching tools and strategies for educators — i.e., Google Tools, Zoom®, FlipGrid®, Kahoot!®, Biteable®, screencasting, e-assessment, the student experience and more. (Completed webinars are also available for free download on the calendar).

“19-19-19 “COVIDeos 19”
E-Learning Webinars”

“Snack Boxes”

E-Teaching Resources

Home » Educator Development » E-Teaching Resources

The Center for Teaching and Learning is dedicated to supporting educators throughout the year. Especially during this time of e-learning, our staff wants to provide as much support as possible. On this page you will find a variety of resources and offerings that are all FREE. We are all learning together and our team is here to help!

19-19-19 “COVIDeos 19” E-Learning Webinars


FREE! We will be offering 19 minute webinars for 19 days at 1900 hours (7:00 PM, CDT). These webinars will focus on remote teaching tools are strategies for educators — i.e. Google Tools, Zoom, FlipGrid, Kahoot!, Biteable, screencasting, e-assessment, the student experience and more. (Completed webinars are also available for free download on the calendar)

[See Event Calendar and Registration](#)

IMSA Snack Boxes

The Snack Box is designed for teachers and parents to provide STEM focused lesson or activity by grade level band. New Snack Boxes will be posted each week.

STEM for the Whole Family ([download here](#))



IMSA Snack Box
STEM FOR THE FAMILY
LAVA LAMP CHEMISTRY
Make your own lava lamp using materials around the house while exploring chemical concepts!

ACTIVITY LINK
[This activity \(click here\)](#) is accessible for all grade levels, with focus questions for Elementary, Middle, and High School.

MATERIALS

- Clear plastic or glass cup/bottle
- Vegetable or baby oil
- Water
- Food coloring
- Antacid tablets
- Optional flashlight (the flashlight feature on a cell phone works well)

Questions? Contact Karen Ye at kye@imsa.edu

E-Teaching Videos

STEM at Home

Get help from our specialists!

Our team is here to help teachers and parents with any questions from how do I help with math problems, to e-learning tools, to where can I find resources for my students to much more. Use the button below to reserve a live video appointment with any of our Specialists.

[Schedule Now](#)

or meet our Specialists

[Meet our Specialists](#)

“Ask A Specialist”



WHAT IS EARTH DAY?

The first Earth Day was held on April 22, 1970, with the goal of raising awareness about mankind's role in protecting our natural world. On this date, 20 million Americans ventured outdoors and protested in favor of a more eco-conscious society.

The theme in 2020 is global climate change.

EARTH DAY AT HOME

[HOME](#) > [EARTH DAY AT HOME](#)

SHARE   

Even as you stay home and maintain social distancing, you can still exercise your responsibility to act for the environment. No matter where you are, you can make a difference!

For Earth Day's 50th anniversary, use these ideas to inspire meaningful actions to show your support for people and the planet. Turn these actions into habits and civic action that last beyond Earth Day!

TOPIC IDEAS

[Global Teach-In](#)



[Food and Climate](#)



[Artists for the Earth](#)



[Protect Our Species](#)



[Plastic Pollution](#)



[Earth Challenge 2020](#)



<https://www.earthday.org/earth-day-at-home/>



Learning Objectives

After this presentation, you will be able to:

- Explain details about the United Nations Sustainable Development Goals
- Access an online tool to provide for a study platform for the SDGs
- Provide a social media platform for students to learn more and contact experts about individual goals



- The United Nations Sustainable Development Goals are an integral part of the development of society for the next ten (10) years
- Students need to learn about the goals if they are to implement solutions and be leaders in the future
- A social media approach helps students communicate with others

What Are the United Nations Sustainable Development Goals (UN SDGs)?

The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future.

At its heart are the 17 Sustainable Development Goals (SDGs), which are an urgent call for action by all countries - developed and developing - in a global partnership.

The SDGs build on decades of work by 192 nations and the UN, including the UN Department of Economic and Social Affairs.



What Are the United Nations Sustainable Development Goals (UN SDGs)?

The Sustainable Development Goals (SDGs), are a universal call to action to end poverty, protect the planet and ensure that all people enjoy peace and prosperity.



<https://youtu.be/0XTBYMfZyrM>



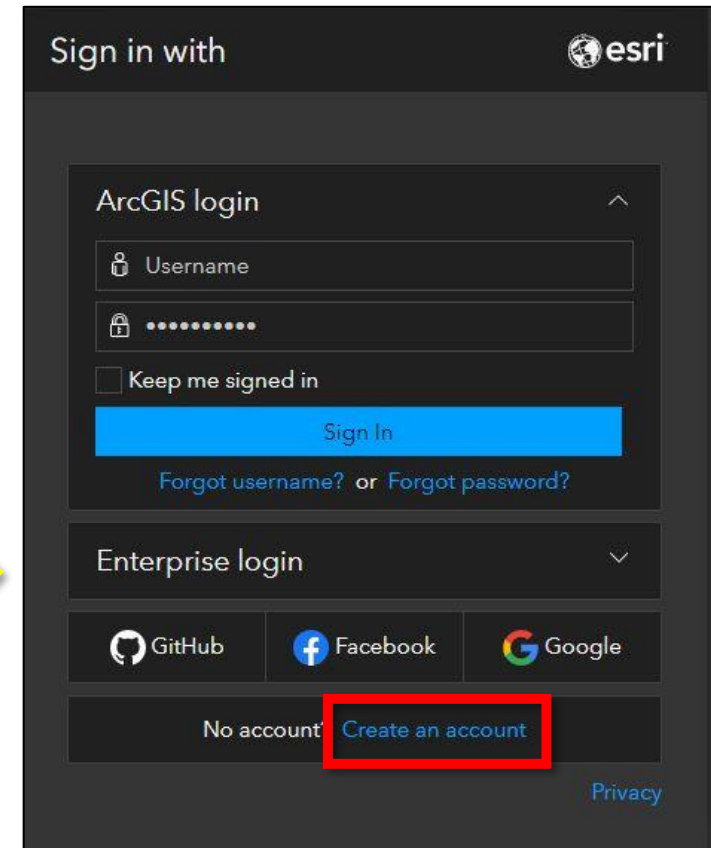
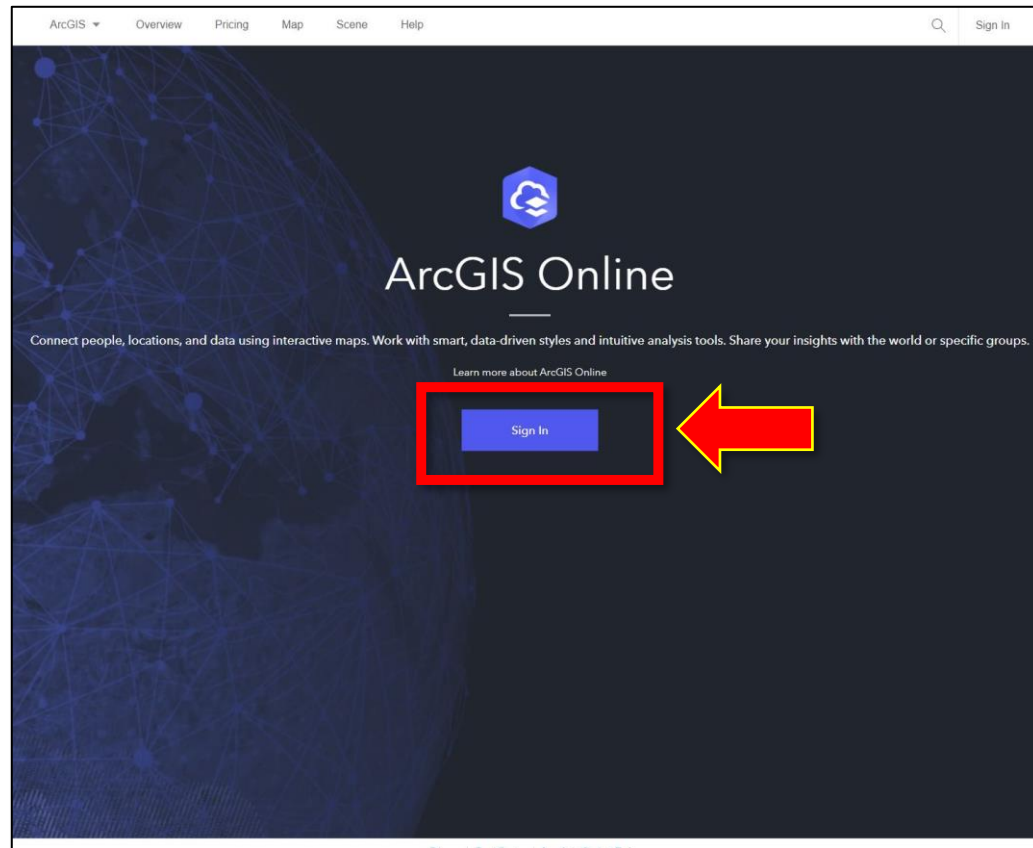
The Tools: ArcGIS Online and “SDGs in Action”

ArcGIS Online:

- Can be used with any device (even mobile devices)
- Great for visual learners
- Promotes equity and diversity by involving all students



“SDGs in Action”:

- Uses the concept of social media to make connections
- Helps users concentrate on one or more goals
- Includes the latest sustainable development news from around the world helping users see how innovation is helping to achieve the goals.




<https://www.arcgis.com/index.html>

Creating an Account

 [Products](#) [Solutions](#) [Support & Services](#) [News](#) [About](#) 


Create an ArcGIS Account



Get started with a developer account

Leverage a full suite of developer tools and resources to create robust, location-based apps. Create an account to get started for free. Pay as you go for additional services.


[Create an ArcGIS Developer Account](#)



Create a public account

This free, limited-functionality account gives you permanent access to create and share basic maps.

[Create an ArcGIS Public Account](#)




Purchase ArcGIS Online

Make ArcGIS Online part of your toolset by purchasing ArcGIS Online. Subscriptions can include a variety of User Types which makes it easy to match you and your team members with the necessary tools for your work.

[Buy ArcGIS Online](#)


Questions about getting started? Contact us.



Chat now

Begin a conversation online.

[Start chat](#)



Give us a call

Talk over the phone.

[1-800-447-9778 \(United States\)](#)

Outside the United States

Once Your Account Has Been Created...

The Sustainable Development Goals Story Map



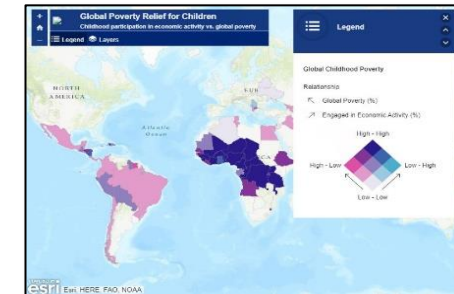
<https://tinyurl.com/y2e4rhen>

GIS for Sustainable Development StoryMap for teaching SDGs



<https://tinyurl.com/y997qh3m>

Exercise Goal 1: No Poverty: Examine Global Poverty Using UN Sustainable Development Goals



<https://tinyurl.com/sw2z8y5>



Step 1: Visualize Global Poverty

Sustainable Development Goal 1: "No Poverty" is achieved when we "End poverty in all its forms everywhere," and "should be understood as deprivation beyond the lack of income and resources to ensure a sustainable livelihood."

Poverty is felt through hunger, malnutrition, limited access basic services and educational opportunities, social discrimination and exclusion. In order to secure a future of sustainable economic growth, it is essential for countries to promote economic equality.

1. Visit the UN Sustainable Development site.

Most of the data for the Sustainable Development Goals is curated and maintained by the UN Statistics Division. There are also countries that host their own open data portals featured on the data page.

2. Under Explore Spatially Referenced Data by Goal, click the first goal, No Poverty.



3. In the data catalog, search for 1.1.1.

4. Open the result titled Indicator 1.1.1: Proportion of population below the international poverty line (percent).

The data page displays information about the dataset. You can view a sample attribute table in the Data tab, or view chart visualizations by clicking on an attribute.

5. Under About, click Create Webmap.



The layer opens in ArcGIS. Each country is symbolized with a graduated point symbol. The larger the circle, the higher percentage of the population lives in poverty. Some countries haven't reported data, and are symbolized with a gray circle.

6. Sign in to your ArcGIS Organization.

Note: If you don't have access to an ArcGIS organizational account, get a free ArcGIS trial.

7. Click Save, then Save As, and save a copy of the web map to your account.

The data appears as points, but to better visualize it, the data should be converted to polygons.

8. On the Change Style pane, click Done.

9. On the ribbon, click Add, then click Browse Living Atlas Layers. Search for "world countries" and add one of Esri's World Countries layers by clicking the plus.

10. Click the back arrow to close the pane. In the Contents pane, hover over your World Countries layer and click the Perform Analysis button.

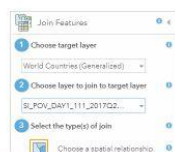


11. On the Perform Analysis pane, expand Summarize Data, then click Join Features.

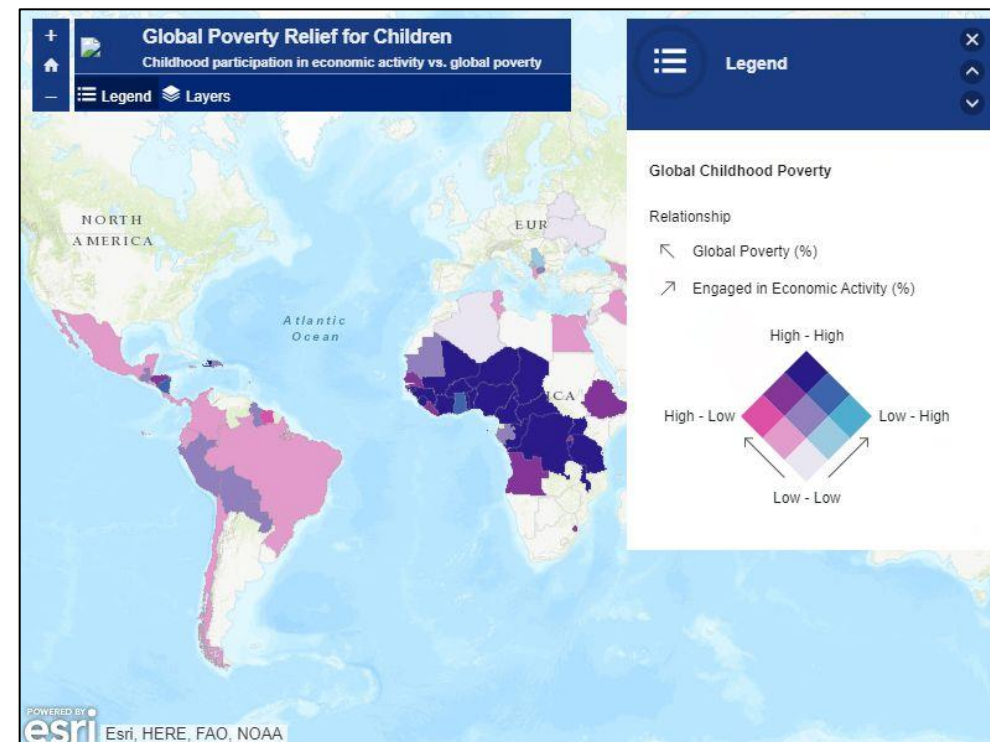
12. Ensure that Number 1. Choose target layer, is set to World Countries.

13. For Choose layer to join to target layer, click the menu and choose the Indicator 1.1.1 layer.

14. For Select the type(s) of join, click Choose a spatial relationship and choose Intersects. For Choose join operation, make sure Join one to one is selected.



Step-By-Step Instructions Leading To...



Final end product visual with questions for deeper analysis



Exercise here: <https://tinyurl.com/y8p3auuj>

Exercise



Target audience: science learners Time required: 15 minutes

Activity

Explore the spatial patterns of deaths near the water pumps in Soho, London in 1854 as part of the 1854 cholera outbreak. Accompanying Story Maps: <https://tinyurl.com/ybe5ph5f> and <https://tinyurl.com/y18r>

Standards

- NGSS HS-LS2-7 Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity
- NGSS HS-LS2-8 Evaluate evidence for the role of group behavior on individual and species' chances to survive and reproduce.

Learning Outcomes

- Students will decipher patterns of cholera deaths and make relationships to water pumps
- Students will analyze spatial relationship and decipher patterns



Ask

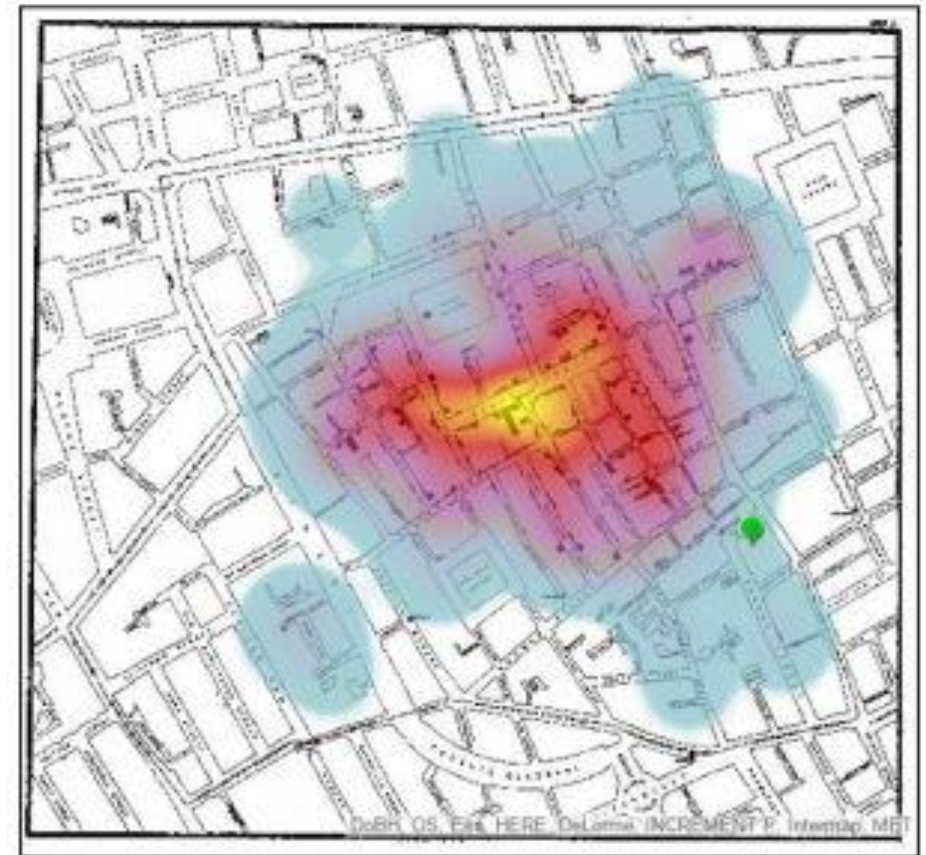
- What is the postal code of the 20A4 London Pump just near Piccadilly Circus?
- Click on the red flag (address with cholera case) just north of the pump from the last question (19A401). How many cases occurred at that address?
- Click on the water pump in the center of the map. How many cases were at 52 Broadwick Street?

Acquire

- In the "Contents" pane, pause your pointer over the "Cholera Cases by Address" layer and click the "Show Table" button.
- When the table opens below the map, click on the "Num_Cases" column and sort Click the column and choose Sort Descending.
- What address had the most cases?

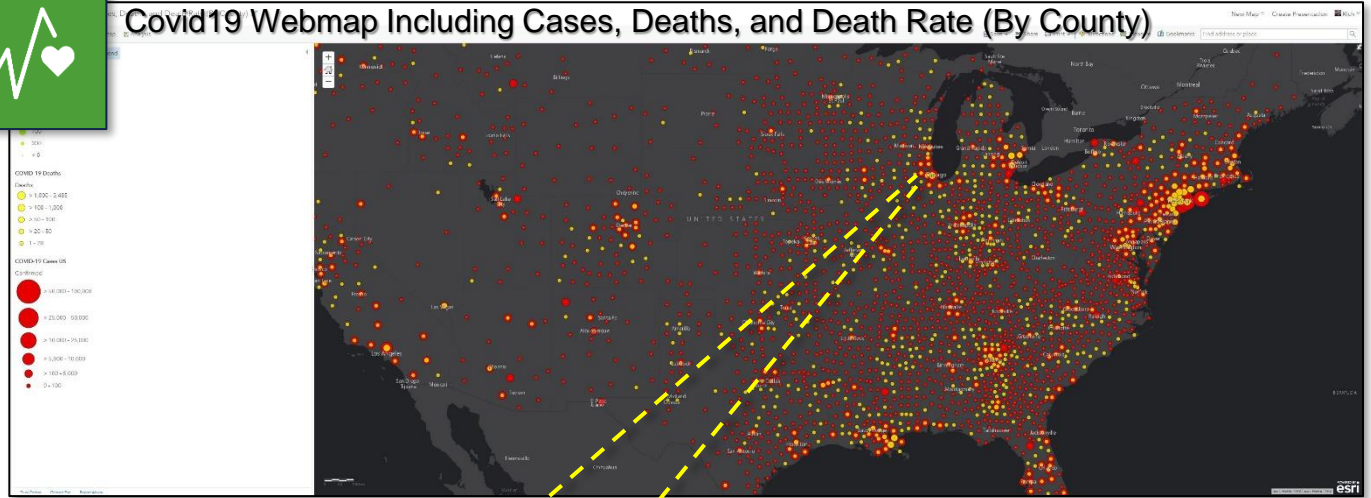
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Step-By-Step
Instructions
Leading To...



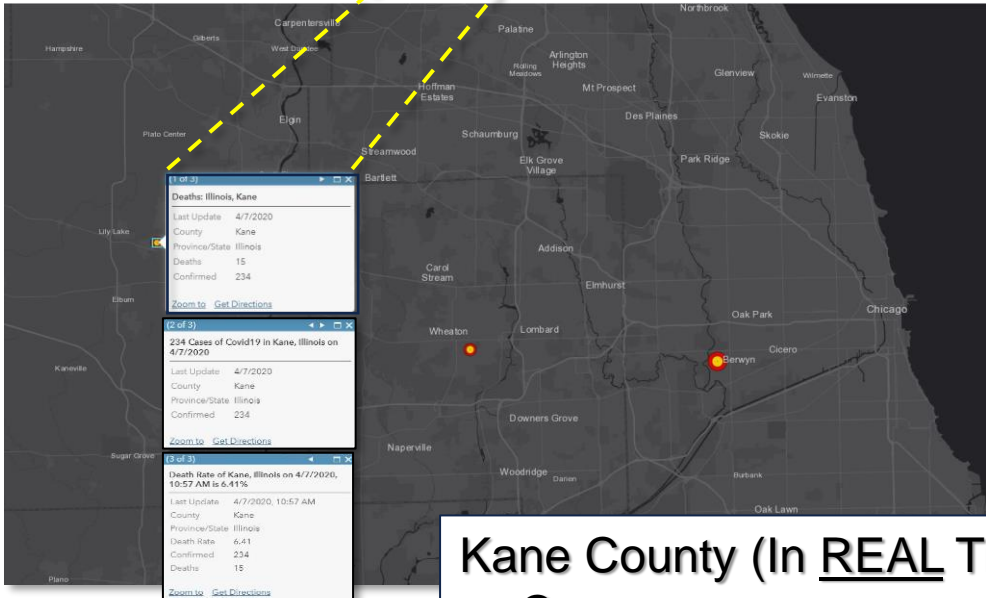
Create a Story Map here: <https://downloads.esri.com/learnarcgis/educators/creating-a-basic-story-map.pdf>

Covid19 Webmap Including Cases, Deaths, and Death Rate (By County)



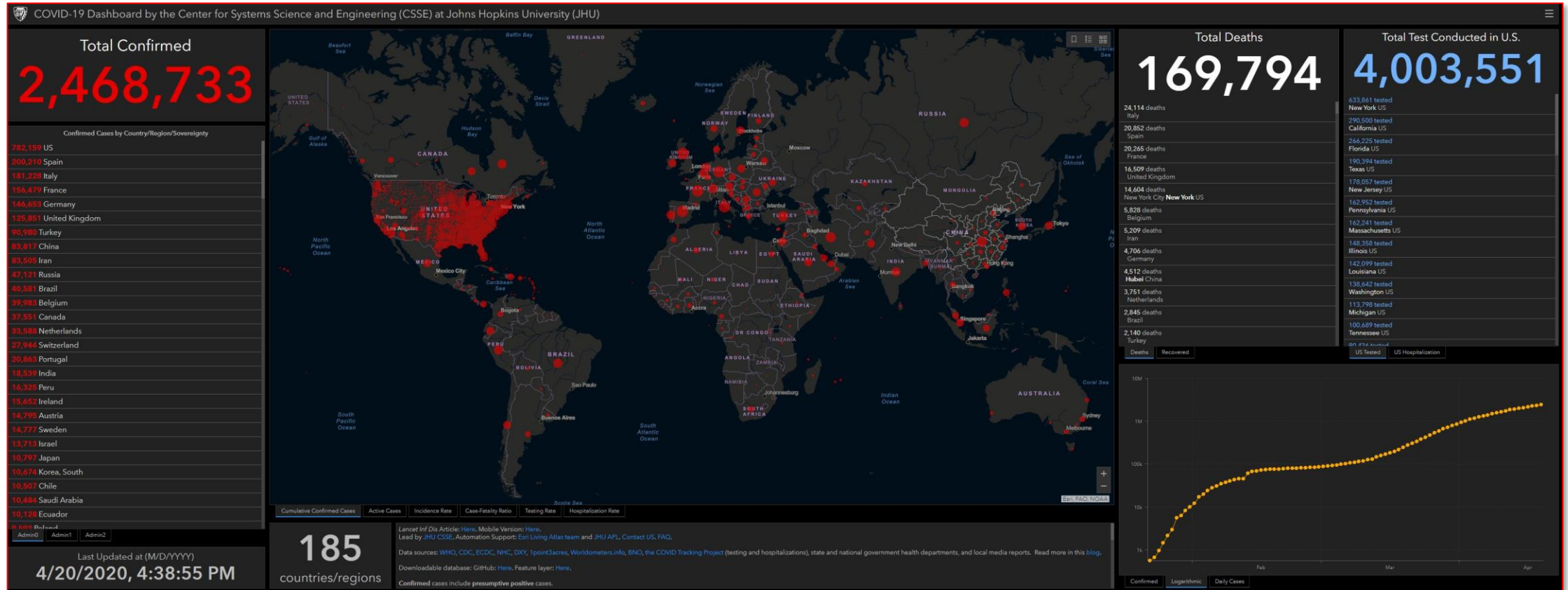
Thought Questions:

1. If yellow represents the number of Covid19 deaths, what does the spatial pattern indicate?
2. Examining death rates in several locations, why is the death rate in Kane County higher than most counties in the US?
3. How might you be able to research this and what type of data would you need to answer the question?



Kane County (In REAL Time)

- Cases
- Deaths
- Death Rate



<https://tinyurl.com/Coronavirus19-April20>



<https://sdgsinaction.com/>

WHAT'S IT ALL ABOUT?

OVERVIEW

The SDGs in Action app has been developed to highlight the Sustainable Development Goals - the world's to-do list to end poverty, reduce inequalities and tackle climate change. It is brought to you by the GSMA, which represents the interests of nearly 800 mobile operators worldwide, and Project Everyone, a non-profit global campaign to spread the messaging of the SDGs.

APP FEATURES

Learn about the 17 SDGs, get news on your favourite goals, find out what you can do to achieve them, create your own events and invite others to join you in sustainable actions and events.

The SDGs in Action app features:

- Detailed information about each of the 17 goals, including targets, explanatory videos, key facts and figures, and suggestions on how you can help achieve them take action.
- The latest sustainable development news from around the world. See how innovation is helping to achieve the goals, interact with global citizens around the world and see the latest news.
- The ability to choose what goals are important to you and receive notifications about that goal.
- Access to the World's Largest Lesson explaining each of the Sustainable Development Goals.
- Find actions and events near you that you can join to support the goals.
- The ability to create Actions you're planning in your area, and invite others to join.

ABOUT THE SUSTAINABLE DEVELOPMENT GOALS

The UN's 2030 Agenda for Sustainable Development, featuring the 17 Sustainable Development Goals, was unanimously adopted by world leaders at a historic UN summit in September 2015. By aligning national priorities with the 2030 Agenda and working together with the private sector and civil society, governments have started mobilizing efforts to end poverty, address inequalities and tackle climate change by 2030.

HOW IT WORKS:



BROWSE ACTIONS:

See what other people around you are doing to achieve the Global Goals and be inspired to take action on your own.



JOIN AN ACTION:

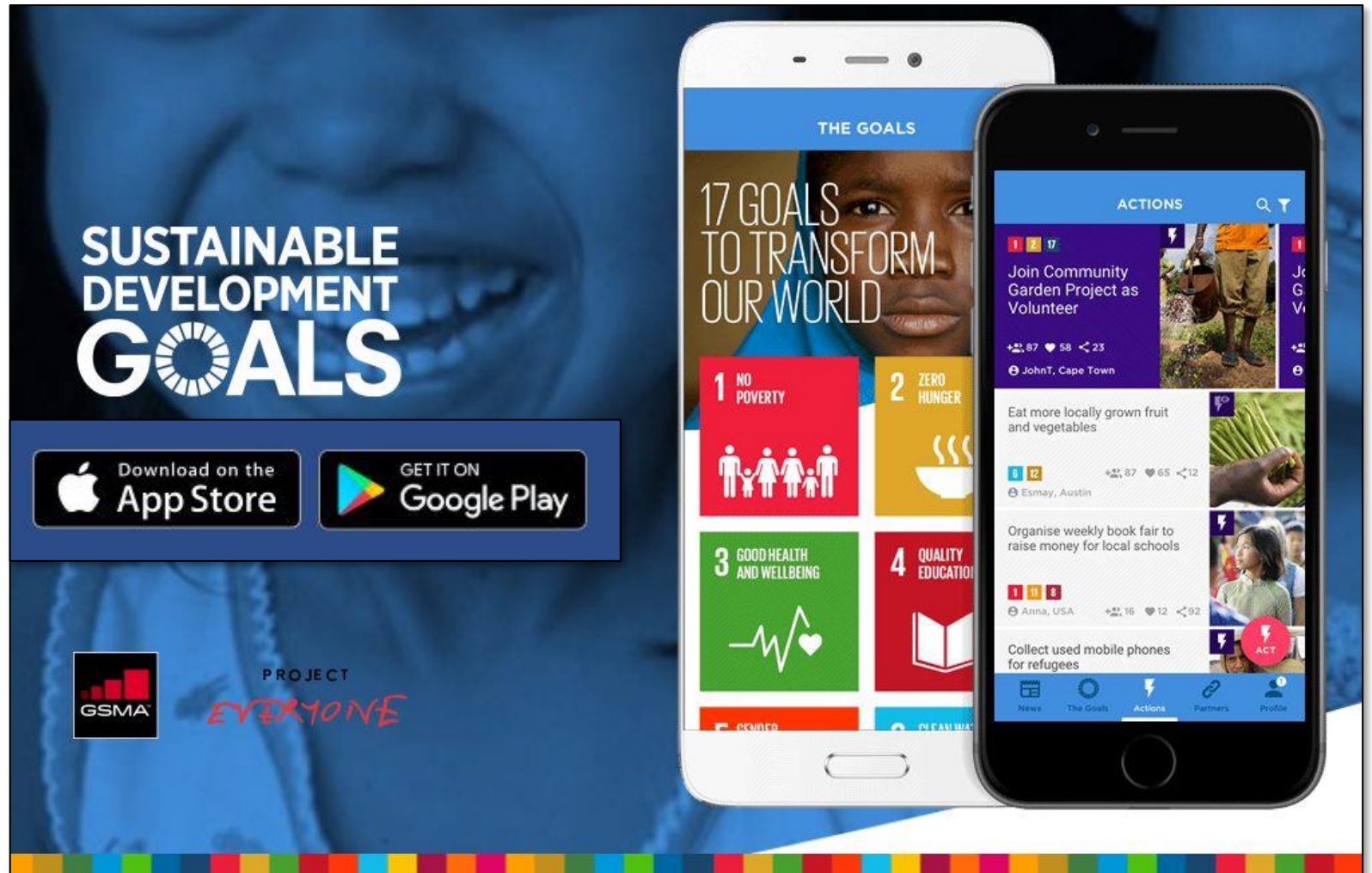
See an action you like? You can take part in other people's actions and invite your friends to join you.



CREATE AN ACTION:

Make your voice heard by creating actions to achieve the Global Goals, and by inviting others to participate.

"SDGs in Action" app





Total time
60–90 min

Age range
8–14 years

A Lesson for **Anyone** to Introduce the Global Goals
(No Teaching Experience Necessary!)



Blank stickers/paper, 2 different sets of coloured card, stickers/marbles/stones/biscuits/sweets (multiple small objects that can be given to students), plain blank large paper (enough for students to work on in small groups) felt tips/coloured pencils (enough for each group to have a selection), Global Goals pledge cards - one for each student.

Students will:

- Understand the interdependence of the Global Goals
- Draw connections between the Global Goals and their own lives
- Design their own vision of a Global Goals country
- Synthesize information and declare a personal pledge to take action for the Global Goals.

To find out more about the Global Goals read the FAQs [here](#)
A great way for you to feel more informed on the Global Goals is by watching [Part 1 of our animation](#). It provides a simple and short overview of the Goals, as well as detailing some of the context in which they were created.

1 | What World Do You Want to See in 2030?

With special thanks to **Miroslava Silva Ordaz**, *Autonomous University of Queretaro, Mexico* and *Guest Researcher at Delft University of Technology and Class 6B of the International School of the Hague, Netherlands*.

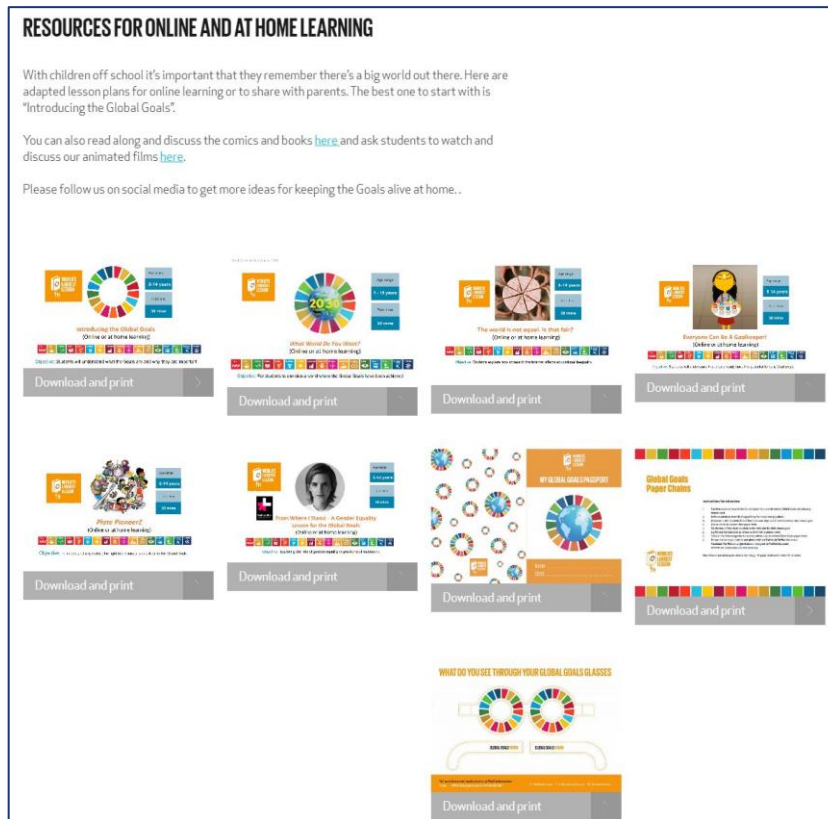
Thank you for volunteering to teach the World's Largest Lesson. Below you will find some of our top tips for teaching

- Speak slowly and clearly
- Try and keep your "teacher talk" (when you are speaking directly to students and they are just listening) to a maximum of 10 minutes at a time to keep students engaged
- *"I was excited and prepared to give a 7 really like how hard you've tried to answer this question, I like how much effort you've put into working on this project today."*
- We have found that using the analogy of a *jigsaw puzzle* can help students to understand the interdependence of the Global Goals - e.g.
 - *"Each single piece is important (just like every single Goal) because they all fit together and it cannot be complete without every single piece." (See Appendix 1)*
- Think about the reasons why you are teaching this lesson today and why you believe the Global Goals are important and need to be shared with young people. Personal stories are the ones that stay with us the most so prepare a short anecdote or experience beforehand to share with your students.
- Smile and enjoy yourself!

- Familiarise yourself with the **World's Largest Lesson Interactive map** – as you will need to add your lesson to it.
- Check with the class before hand on the class rules and expectations of the lesson. Suggested questions to ask: How does the reward signal to the students to be quiet when he/she is speaking? Is there a class teamwork system?
- Print off the Global Goals Grids (**Appendix 4**) – enough for each group to have one.
- Using sheets of paper, draw a large circular (country) shape. Ensure that the 'country' extends over enough pieces of paper for each group in the class to have one. To provide more guidance for students, you may want to draw a road running the circumference of the country and/or label the outside space of country as the ocean.

Note: Below is a suggested approach to the activities for your lesson. In **Appendix 2** you will find other variations to suggested activities or you may want to get creative and design your own!

Learning Online and At Home



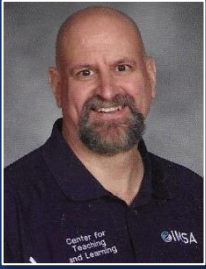
Includes:

- Activities
- Comic Books
- Animated Cartoons and Videos

<https://worldslargestlesson.globalgoals.org/resources-for-online-and-at-home-learning/>

Resources

- [Remote Learning Recommendations During Covid-19](#) (Illinois State Board of Education)
- [GeoInquiries YouTube Channel](#)
- [GeoInquiries Hub](#)
- [Esri School Website for Educator Materials](#)
- [What is GIS?](#)
- [GIS and Schools](#)
- [Why Teach and Learn with GIS and GPS Geotechnologies in Schools?](#)
- [English Language Arts Instructor Teaching with GIS at a High School](#)
- [Using GIS in School Instruction](#)
- [The Top 10 Benefits of Using GIS in Education](#)
- [FREE Instructional Resources for Teaching](#)
- ["SDGs in Action" App](#)
- [The UNSDGs: What are they and why are they important? \(YouTube clip\)](#)
- [17 Goals to Transform Our World \(YouTube clip\)](#)
- [World's Largest Lesson Plan](#)



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IMSA Center for Teaching and Learning E-Teaching Resources:
<https://www.imsa.edu/educator-development/e-teaching-resources/>

*Please join us for our upcoming
“19 Minute” Webinars:*

- Thurs., April 23: “The Art of Storytelling with a Creative Tool”, Rich Schultz
- Fri., April 24
- Mon., April 27





Please complete this post-webinar survey:

<https://tinyurl.com/umdkyau>